

FIG. 1

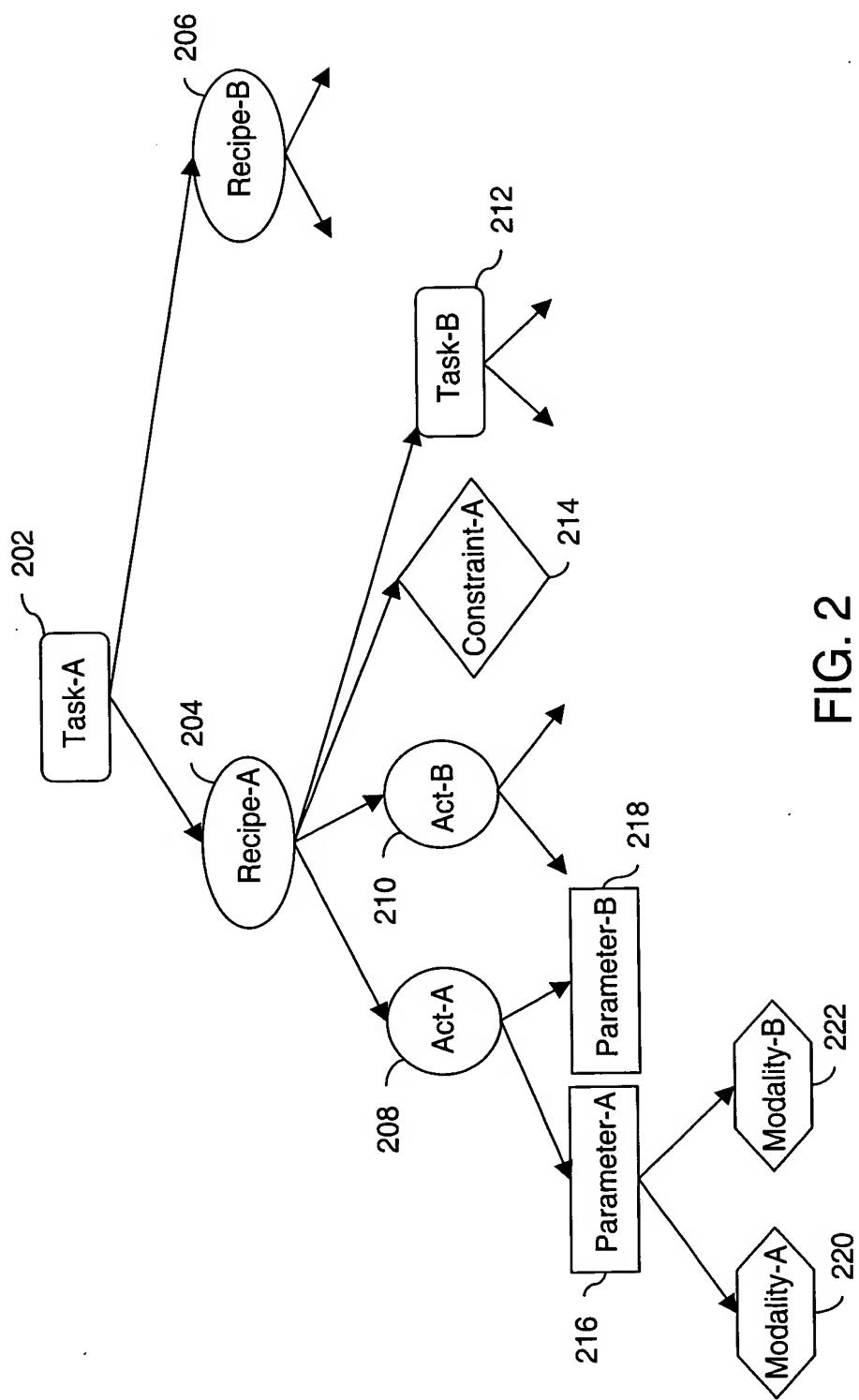


FIG. 2

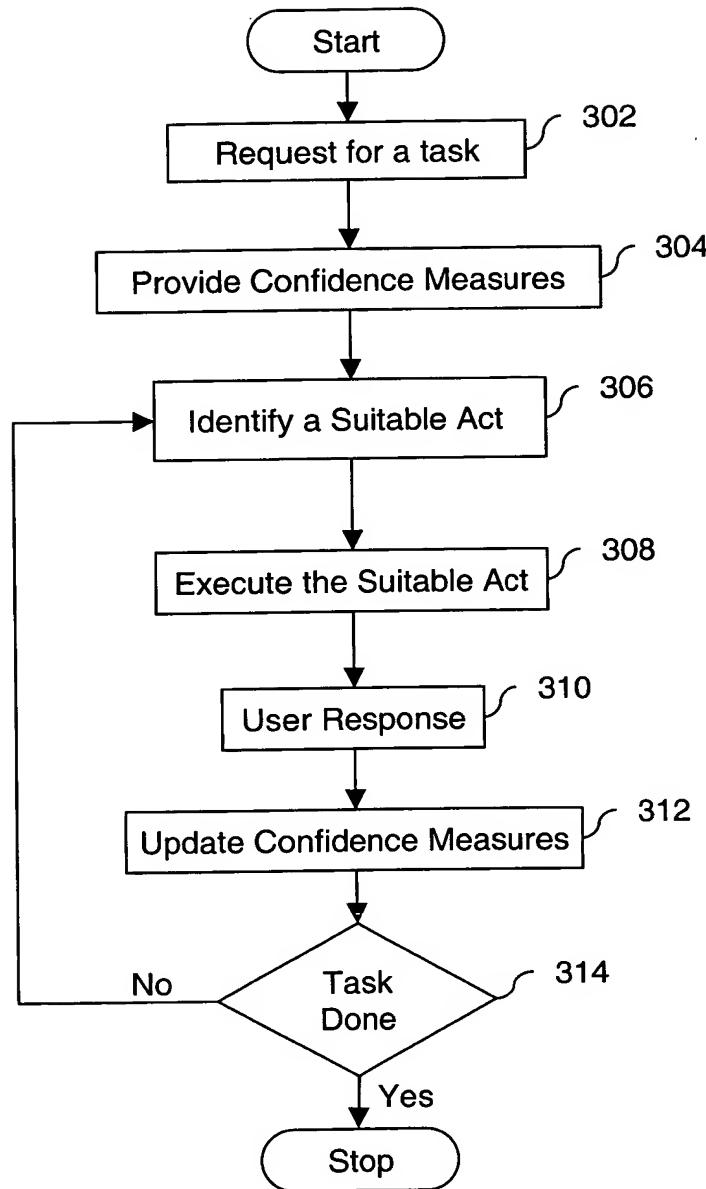


FIG. 3

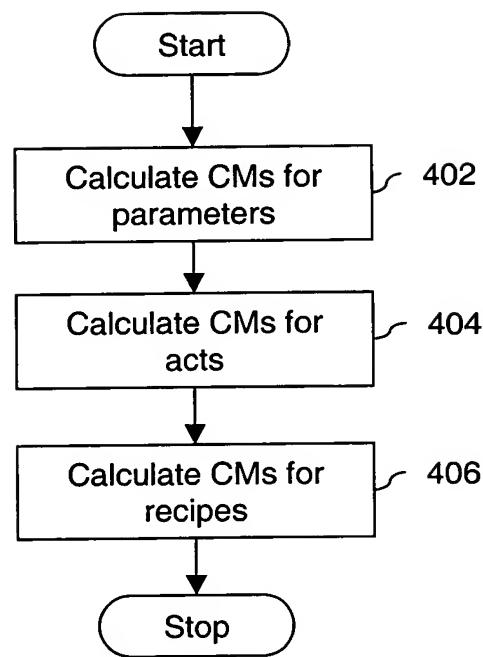


FIG. 4

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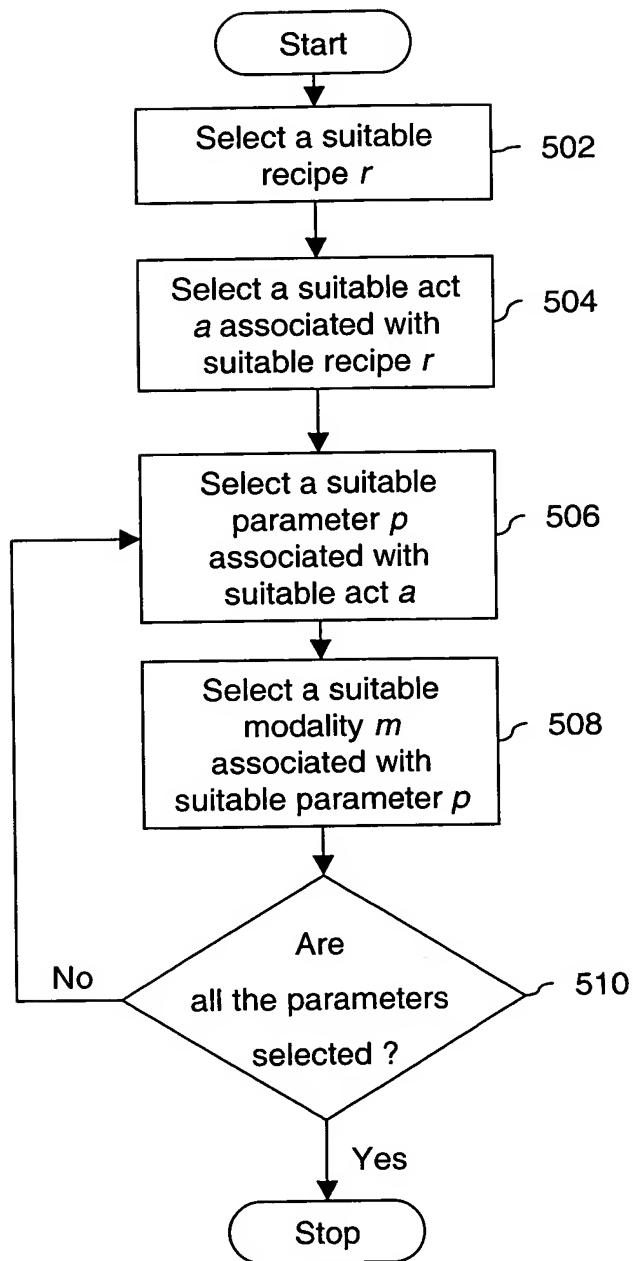


FIG. 5

Task: Find audio file		
Recipe_1	Act specify_song_name <i>A1</i> ; Act specify_artist_name <i>B1</i> ;	Parameter string <i>Song_Name1</i> ; Parameter string <i>Artist_Name1</i> ;
	Act search_database <i>C1</i> ;	
	Constraints	<i>A1</i> precedes <i>C1</i> <i>B1</i> precedes <i>C1</i>
Recipe_2	Optional Act lyric_contains <i>A2</i> , Act specify_year_of_release <i>B2</i> ;	Parameter string <i>Lytic2</i> , Parameter integer <i>Year2</i> ;
	Act specify_song_name <i>C2</i> ;	Parameter string <i>Name2</i> ;
	Act search_database <i>D2</i> ;	
	Constraints	<i>A2</i> precedes <i>D2</i> ; <i>B2</i> precedes <i>D2</i> ; <i>C2</i> precedes <i>D2</i> ;

FIG. 6

Calculation of Confidence Measures for Recipe_1		
Recipe_1 $RLCM1 = 0.85 \times 0.75 \times 1.0$	Act specify_song_name A1; $ALCM1 = 0.85$ Parameter string $Song\_Name1;$ $PLCM1 = 0.5 \times 0.8 + 0.5 \times 0.9$	Speech: 0.8 Keyboard: 0.9
	Act specify_artist_name B1; $ALCM2 = 0.75$ Parameter string $Artist\_Name1;$ $PLCM2 = 0.5 \times 0.8 + 0.5 \times 0.7$	Speech: 0.8 Keyboard: 0.7
	Act search_database C1; $ALCM3 = 1.0$	

FIG. 7